

METHODS, RECEIVERS, TRANSMITTERS, AND SYSTEMS FOR
PERFORMING A SOFT HAND-OVER OF A MOBILE TERMINAL BETWEEN
BASE STATIONS THAT COMMUNICATE USING DIFFERENT
COMMUNICATION CHANNELS

ABSTRACT OF THE DISCLOSURE

Methods, receivers, transmitters, and systems are provided for performing a soft hand-over of a mobile terminal between base station transceivers that communicate using different communication channels. A mobile terminal may be configured to receive and demodulate signals on a plurality of different communication channels concurrently and to modulate and transmit signals on a plurality of different communication channels concurrently. This allows, for example, multiple communication connections to be concurrently established between the mobile terminal and a plurality of different base station transceivers that use the different communication channels to communicate. The mobile terminal and cooperating base station transceivers may perform a soft hand-over by allowing the mobile terminal to establish communication connections with one or more new base station transceivers to decide which base station transceiver should be given control before terminating any pre-existing communication connection with a current base station transceiver.